

1.4 kb—



Figure 1

1 CCCTTCTCCAGGGACTCTGGCTGCCAGCAGCTCCGCCTTTTCAGATCAATTCTCGACCACC 60
61 CACCTTGGGACTGCCGCCCAGTCCTGCCCTCTGGATCAGTGGGGTCCAGACACGCCCCCT 120
121 CCAGGACCTCAAAGCACCCCCGACCTAAGGTCACCAGCCCACTGGCCCCAGACGCAGTGG 180
181 GCTCCGCTGACTCTCTTGGACACCTCCTGGGAGGAAAATGCTCCCTGTCTGCCATCGTTT 240
M L P V C H R F
241 TTGCGACCACCTCCTCCTCCTGCTCTTGCTGCCCTCGACGACCCTGGCCCCCGCGCCAGC 300
C D H L L L L L L L P S T T L A P A P A
301 ATCCATGGGCCCCGCTGCCGCCCTGCTCCAGGTTCTTGGGCTTCCCGAAGCGCCCCGGAG 360
S M G P A A A L L Q V L G L P E A P R S
361 CGTCCCCACACACCGACCTGTGCCTCCTGTCTGTGGCGCCTATTCCGTGCGCGTGACCC 420
V P T H R P V P P V M W R L F R R R D P
421 CCAGGAGGCCAGAGTGGGACGCCCTCTGCGGCCATGCCACGTGGAGGAACTAGGGGTGCG 480
Q E A R V G R P L R P C H V E E L G V A
481 CGGAAACATTGTGCGCCACATCCCCGACAGCGGTCTGTCTCCAGGCCCCGACAACCCGC 540
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541 CAGGACCTCGGGGCTGTGCCCCGAGTGGACAGTCGTCTTTGACCTGTGCAATGTGGAGCC 600
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601 CACAGAGCGCCCCAACACGCGCGCGCTTAGAGTTGCGGCTGGAGGCTGAGTGTGAAGATAC 660
T E R P T R A R L E L R L E A E C E D T
661 AGGAGGGTGGGAGCTAAGCGTGGCACTGTGGGCGACGCAGAGCATCCAGGGCCTGAGCT 720
G G W E L S V A L W A D A E H P G P E L
721 GCTGCGCGTGCCGGCGCCACCAGGGGTGCTCCTGCGCGCAGACCTACTGGGGACTGCAGT 780
L R V P A P P G V L L R A D L L G T A V
781 AGCCGCCAACGCATCAGTGCCCTGTACTGTGCGCCTGGCGCTGTCACTGCACCCTGGGGC 840
A A N A S V P C T V R L A L S L H P G A
841 CACTGCAGCCTGTGGGCGCCTGGCTGAGGCCTCCCTGCTGCTGGTGACGCTGGACCCAGC 900
T A A C G R L A E A S L L L V T L D P R
901 CCTGTGTCCCTTGCCGCGATTGCGGCGCCACACGGAGCCCAGGGTAGAAGTTGGTCCAGT 960
L C P L P R L R R H T E P R V E V G P V
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G T C R T R R L H V S F R E V G W H R W
1021 GGTGATCGCGCCGCGTGGCTTCTAGCCAACTTCTGCCAGGGCACGTGCGCACTACCCGA 1080
V I A P R G F L A N F C Q G T C A L P E
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M V V D E C G C R
1321 CCACGCAAAAGCAGGGACTGTTTGTTCATGTTTTATTGGTGACAAAAAGCTTAAACAAA 1380
1381 TTTGACT 1387

	GDF-1	Vg-1	Vgr-1	BMP-2a	BMP-2b	BMP-3	DPP	MIS	Inhibin α	Inhibin βA	Inhibin βB	TGF- $\beta 1$	TGF- $\beta 2$	TGF- $\beta 3$	TGF- $\beta 4$	TGF- $\beta 5$
GDF-1	100	52	40	38	39	41	34	33	22	31	31	26	27	30	26	26
Vg-1	-	100	59	59	57	45	49	27	23	45	40	34	35	38	33	35
Vgr-1	-	-	100	62	59	43	57	26	23	45	39	35	37	38	37	37
BMP-2a	-	-	-	100	92	44	73	26	20	42	37	34	34	35	33	33
BMP-2b	-	-	-	-	100	44	74	27	21	41	37	33	34	35	33	33
BMP-3	-	-	-	-	-	100	42	25	28	33	33	29	31	31	26	28
DPP	-	-	-	-	-	-	100	25	20	39	36	35	35	35	35	34
MIS	-	-	-	-	-	-	-	100	18	22	22	24	21	26	25	24
Inhibin α	-	-	-	-	-	-	-	-	100	23	21	24	23	24	24	24
Inhibin βA	-	-	-	-	-	-	-	-	-	100	63	38	37	36	35	38
Inhibin βB	-	-	-	-	-	-	-	-	-	-	100	35	35	36	34	32
TGF- $\beta 1$	-	-	-	-	-	-	-	-	-	-	-	100	73	77	85	81
TGF- $\beta 2$	-	-	-	-	-	-	-	-	-	-	-	-	100	81	68	69
TGF- $\beta 3$	-	-	-	-	-	-	-	-	-	-	-	-	-	100	74	73
TGF- $\beta 4$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	78
TGF- $\beta 5$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100

	54		133
GDF-1		PVPPVMWRLFRRRDPQEARVGRPLRPCHVEELGVAGNIVRHIPDSGLSSRPAQPARTSGLCPWTVVFDLSNVEPTERT	
Vg-1		PVPSILWRIENQRMGSSIQKKKPDLCFVEEFNVPGSVIRVFPDQGRFIIPYSDDIHPTQCLEKRLEFFNISAIEKEERT	124
	46		

	219	234
GDF-1		SLLLVTLDPRLCPLPR
Vg-1		SLLTVTLNPLRCKRPR
	228	243

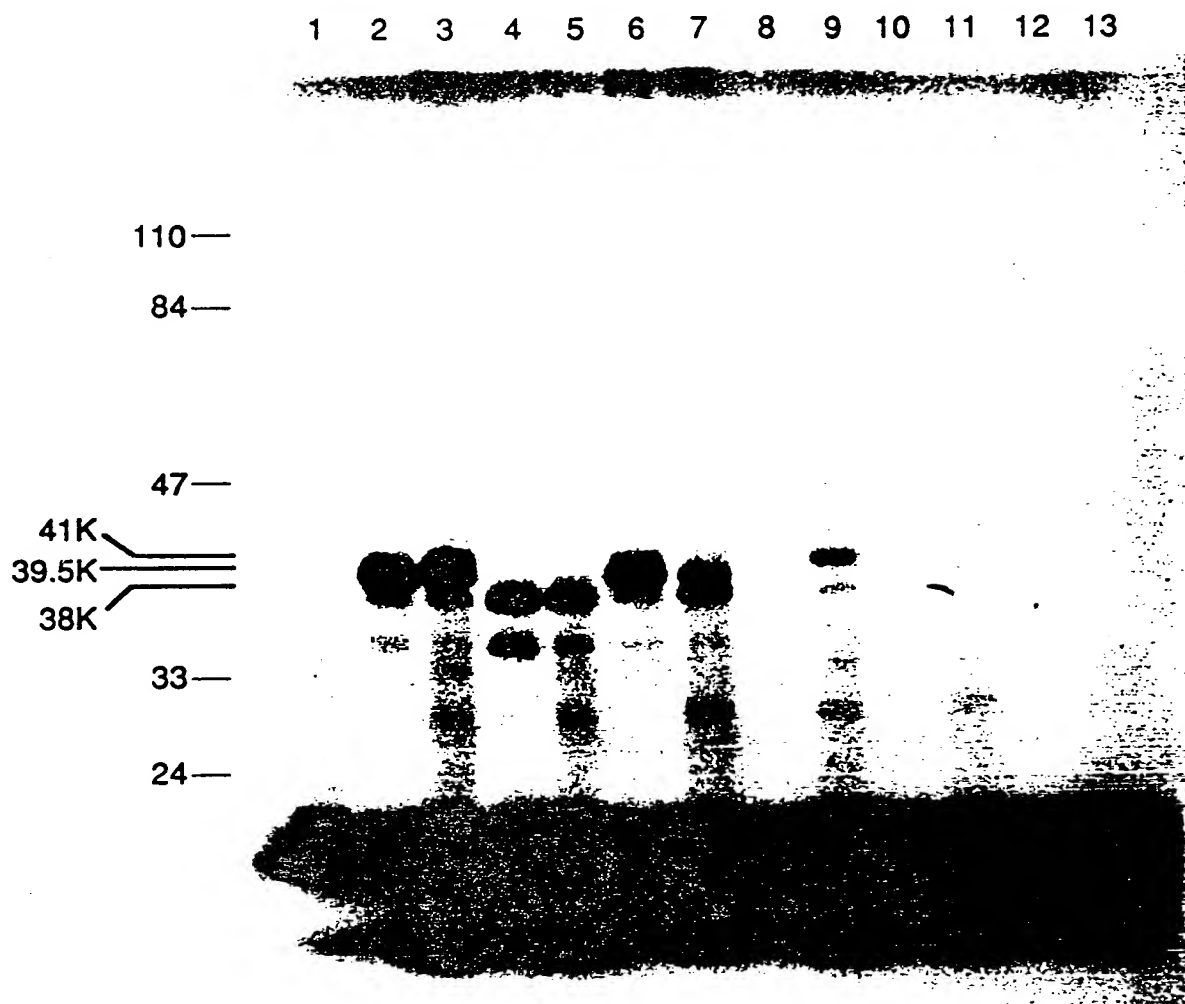


Figure 4

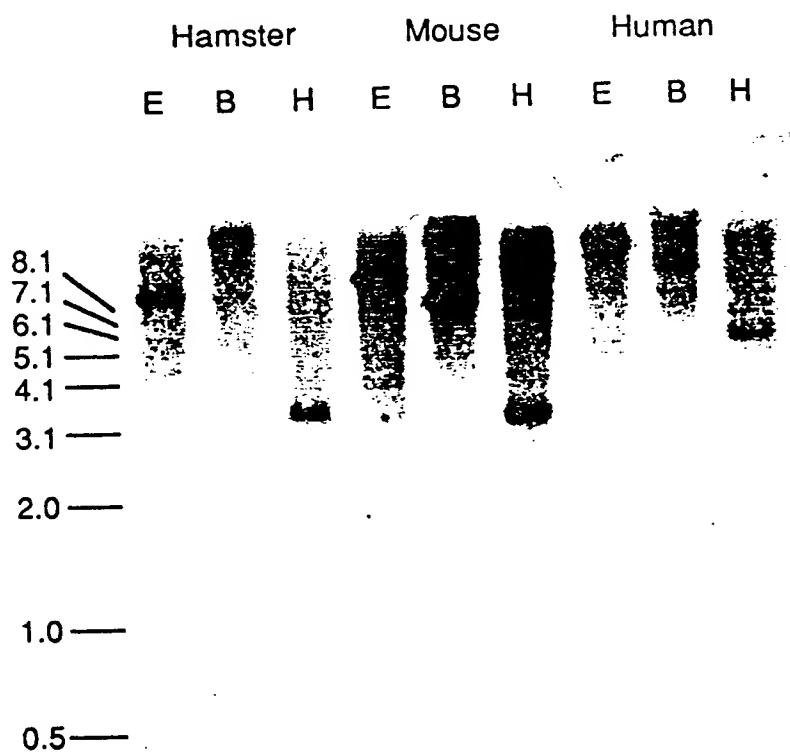


Figure 5

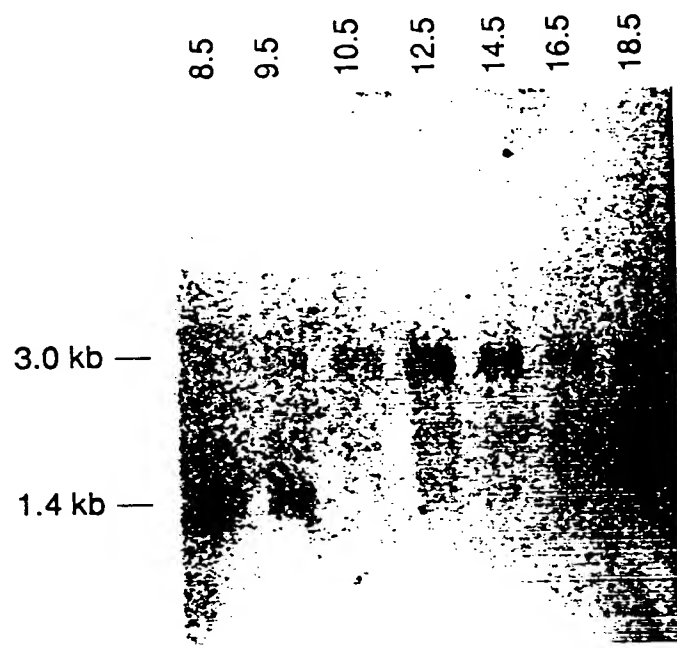


Figure 6

3.0 kb —

10.5 d placenta

testis

seminal vesicle

ovary

oviduct

uterus

brain

thymus

heart

lung

kidney

adrenal

spleen

liver

intestine

pancreas

Figure 7

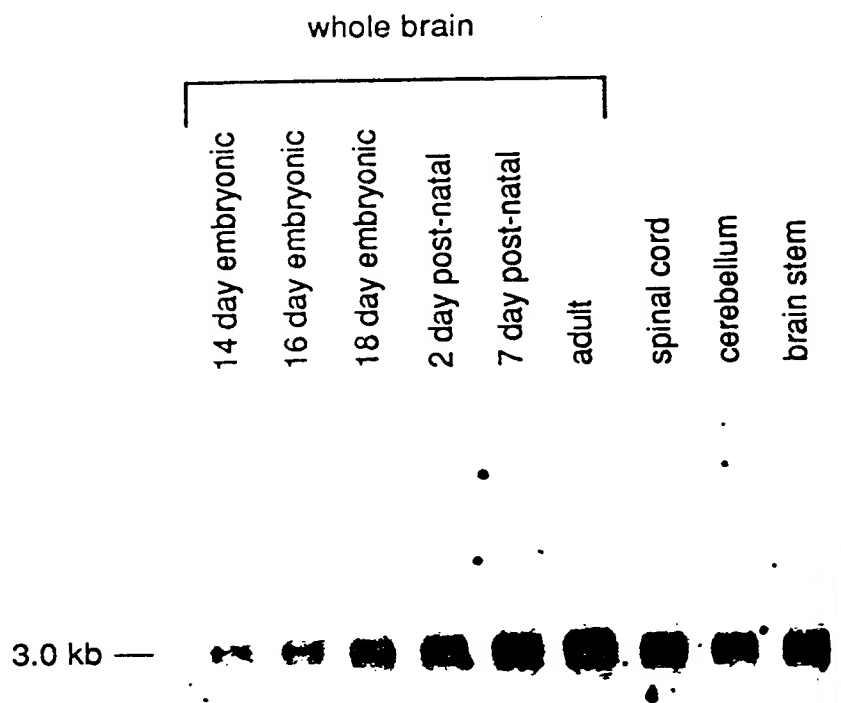


Figure 8

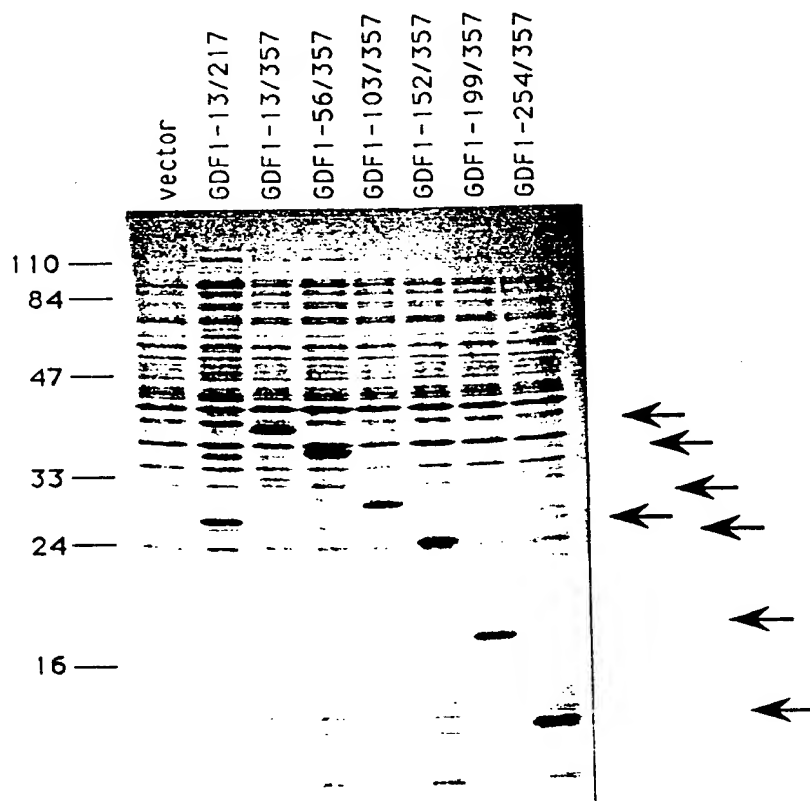


Figure 9

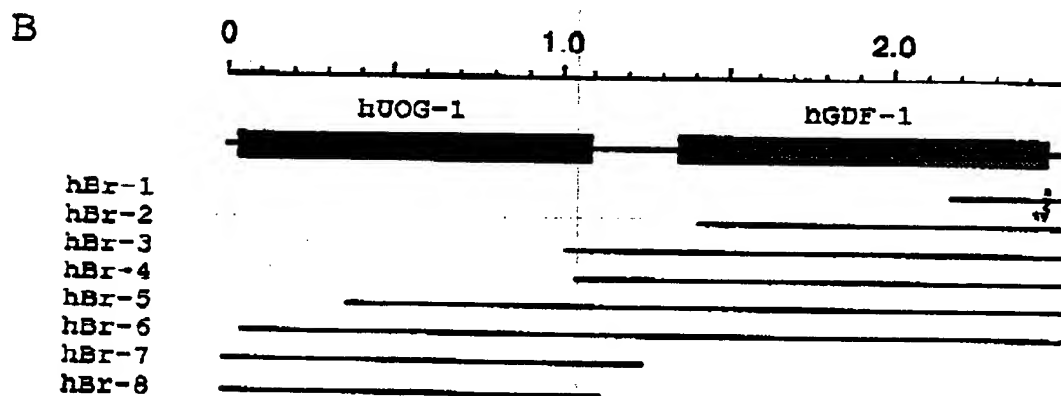
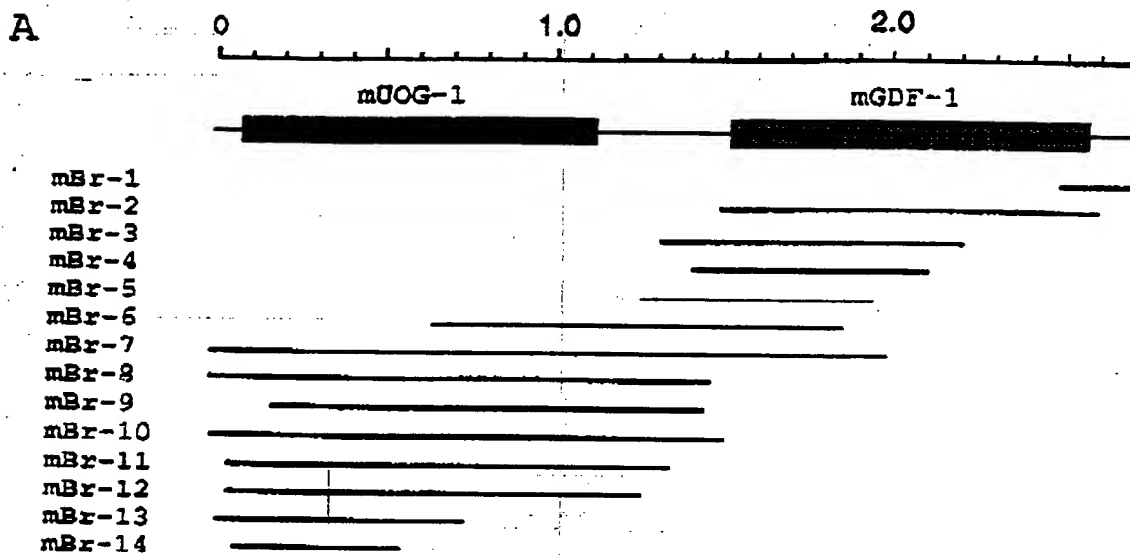


Figure 10

1 GCGCGTGACGCGAGGGCGCGCGCGGACTCGGACCGGTGCAGGCAACAGCGGAGACAGCGG 60
61 AGAATTGGATAGCATGGCTGCTGCGCGCGGACCCCGAGGCTCGAGGCGCCAGAGCCCAT 120
M A A A A A A T P R L E A P E P M
121 GCCGAGTTATGCGCAGATGTTGCAACGAAGCTGGGCGCTCGGCGCTGGCGGCGGCTCAGGG 180
P S Y A Q M L Q R S W A S A L A A A Q G
181 CTGCGGGGACTGCGGCTGGGACTGGCGCGCGCGGCTGGCGGAGCAGCGCACCTGGC 240
C G D C G W G L A R R G L A E H A H L A
241 TGCACCCGAGCTGCTGCTGGCCGTGCTGCGCTCTGGGGTGGACAGCGTTGCGCTGGGC 300
A P E L L L A V L C A L G W T A L R W A
301 AGCCACCACACATCTTTTCGGCCCTGGCCAAGCGGTGCTGCTGCGAGCTAGAGATGC 360
A T T H I F R P L A K R C R L Q P R D A
361 TGCCAGGTTACCTGAGAGCGCTGGAAGCTTCTGTCTACTTGGCCTGTTGGAGCTACTG 420
A R L P E S A W K L L F Y L A C W S Y C
421 CGCTTACCTGCTCTGGGACCCAGTTATCTTCTTCCATGACCCGCGCTCTGCTTCTA 480
A Y L L L G T S Y P F F H D P P S V F Y
481 TGA CTGGAGGTGAGGATGGCAGTGGCCTGGGACATCGCGTGGCTATTGCTGCGAGG 540
D W R S G M A V P W D I A V A Y L L Q G
541 GAGTTTCTACTGCCACTCCATCTATGCCACCGGTGACATGGACAGCTGGCGTAAGGACTC 600
S F Y C H S I Y A T V Y M D S W R K D S
601 GGTGGTCATGCTGGTGCATCAGTGGTCAACCTGCTCTCTGCTGCTCTCTCTACGCTT 660
V V M L V H H V V T L L L I A S S Y A F
661 CCGGTACCACAACGTAGGCTCTCTGCTGTTCTTCTGCTGATGACGTCAGCGATGTCAGCT 720
R Y H N V G L L V F F L H D V S D V Q L
721 GGAGTTCACAAACTCAACATCTACTTAAAGGCTAGGGGTGGTGCCTACCATCGCTTGCA 780
E F T K L N I Y F K A R G G A Y H R L H
781 TGGGCTGGTGGCCAACCTGGGCTGCGCTCAGCTTCTGTTTCTGCTGGTTCGCTCCGCT 840
G L V A N L G C L S F C F C W F W F R L
841 CTACTGGTTCGCGCTCAAGGTTCTGTACGCCACTTGGCACTGCGAGCTGCGCTGCTGCGC 900
Y W F P L K V L Y A T C H C S L Q S V P
901 TGACATTCCGTACTACTTCTTCTCAACATTCTGCTGTTGCTCTGATGGTCATGAACAT 960
D I P Y Y F F F N I L L L L L M V M N I
961 CTATTGGTTCCTGTACATTGTGGCTTTCGAGCAAGGTGCTGACTGGTCAGATGCGCTGA 1020
Y W F L Y I V A F A A K V L T G Q M R E
1021 ACTGGAAGACTTGAGGGAGTACGACACTCTGGAAGCTCAGACAGCCAGCCCTGCAAGC 1080
L E D L R E Y D T L E A Q T A K P C K A
1081 CGAGAAGCCACTGAGGAATGGCCTGGTGAAGGACAAGCTCTTCTGAGTCTCTTGCTCTCA 1140
E K P L R N G L V K D K L F
1141 ACTTCAGCCATCCAGGACTCTATCCCATCTACCTGGGATACTGACTCCGCCCTGGAGA 1200
1201 CTCGACCCAGTCCCTGGAGGTCTGCTCCACCCCTGGAGGCCCGGTCCCGCTTGGCGG 1260
1261 CATGGCTTCGCCCCAGGACAATAGCCCCGCTTAAGATTGAGATGCTACCTTCTCCA 1320
1321 GGGACTCTGGCTGCCAGCAGCTCCGCTTTCAGATCAATTCTGACCAACCCACTTGGGA 1380
1381 CTGCCGCCAGTCTGCGCTCTGGATCAGTGGGGTCCAGACACGCCCCCTCCAGGACCTC 1440
1441 AAAGCACCCCGAGCTAAGGTCAACAGCCACTGGCCCCAGACGAGTGGGCTCCGCTGA 1500
1501 CTCTCTTGACACCTCTGGGAGGAAAATGCTCCCTGCTGCGCATCGTTTTTGGCAGCAC 1560
M L P V C H R F C D H
1561 CTCTCTCTGCTCTTGCTGCCCTCGACGACCTGGCCCCCGCCAGCATCCATGGGC 1620
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1621 CCCGCTGCCGCCCTGCTCCAGGTTCTTGGGCTTCCCGAAGCGCCCCGAGCGTCCCCACA 1680
P A A A L L Q V L G L P E A P R S V P T
1681 CACCGACTGTGCTCTGTGCTGCTGCGGCTATTCCGTCGCGCGACCCCCAGGAGGCC 1740
H R P V P P V M W R L F R R R D P Q E A
1741 AGAGTGGGACGCCCTCTGCGGCCATGCCACGTGGAGGAACTAGGGGTGCGCGGAAACATT 1800
R V G R P L R P C H V E E L G V A G N I
1801 GTGCGCCACATCCCCGACAGCGGTCTGCTCTCCAGGCCCCGACAAACCCGCCAGGACCTCG 1860
V R H I P D S G L S S R P A Q P A R T S
1861 GGGCTGTGCCCGAGTGGACAGTCTGCTTTGACCTGTGGAATGTGAGGCCACAGAGCGC 1920
G L C P E W T V V F D L S N V E P T E R
1921 CCAACACGCGCGCTTAGAGTTGCGGCTGGAGGCTGAGAGTGAAGATACAGGGGGGTGG 1980
P T R A R L E L R L E A E S E D T G G W
1981 GAGCTAAGCGTGGCACTGTGGGCGGACGAGCATCCAGGGCCTGAGCTGCTGCGCGTG 2040
E L S V A L W A D A E H P G P E L L R V
2041 CCGGCGCCACAGGGGTGCTCTGCGCGCAGACCTACTGGGACTGCGATAGCCGCCAAC 2100
P A P P G V L L R A D L L G T A V A A N
2101 GCATCAGTGGCCTGTACTGTGCGCTGGCGCTGTACTGACCCCTGGGGCACTGACGCC 2160
A S V P C T V R L A L S L H P G A T A A
2161 TGTGGGCGCTGGCTGAGGCTCCCTGCTGCTGGTGACGCTGGACCCACGCTGTGTCCC 2220
C G R L A E A S L L L L V T L D P R L C P
2221 TTGCCGCGATTGCGGCGCACACGAGCCAGGGTAGAAGTTGGTCCAGTGGGCACTTGT 2280
L P R L R R H T E P R V E V G P V G T C
2281 CGTACCCGACGGTTGATGTGAGCTTCCGTGAGGTGGGCTGGCACCCTTGGGTGATCGCG 2340
R T R R L H V S F R E V G W H R W V I A
2341 CCGCGTGGCTTCCTAGCCAACCTTCTGCCAGGGCACGTGCGCACTACCCGAAACGCTGAGG 2400
P R G F L A N F C Q G T C A L P E T L R
2401 GGACCCGGGCGGCGCTGCACTCAACACGCTGTGCTGCGCGCGCTCATGCACGAGCT 2460
G P G G P P A L N H A V L R A L M H A A
2461 GCTCCACCCCGGGTGCAGGCTCGCCCTGCTGCGTGCCAGAGCGTCTATCACCCATCTCC 2520
A P T P G A G S P C C V P E R L S P I S
2521 GTGCTCTTCTCGACAATAGTGAACGTTGCTGCGGACACTACGAAGACATGGTGGTG 2580
V L F F D N S D N V V L R H Y E D M V V
2581 GATGAGTGTGGCTGCCGTTGACCACCCGGGACACCTTTTCAGGACCGCCCCACGAAAA 2640
D E C G C R
2641 GCAGGGACTGTTGTTATGTTTATTGGTGACAAAAAGCTTAAACAAATTTGACTAAA 2700
2701 AATTAAGTTCC 2711

Fig 11A

1 GGACACGGCGGGCGAGCGGGCGGTATGGCGGGCGGGGCGGGCGGGCGGGCGGGG 60
 61 CCCGAGCCCATGCCAGCTACGCGCAGCTAGTCAGCGCGGCTGGGGCAGCGCGCTGGCG 120
 P E P M P S Y A Q L V Q R G W G S A L A
 121 GCGGCGCGGGGCTGCACGGAAGTGGGGCTGGGGCTGGCGCGTGGCGGCTGGCTGAGCAC 180
 A A R G C T D C G W G L A R R G L A E H
 181 GCGCACCTGGCGCGCGCGGAGCTGTGTGTGGCGCTCGGCGCGCTGGGCTGGACCGCG 240
 A H L A P P E L L L L A L G A L G W T A
 241 CTGGGCTCCGCGGCGGCTGCGCGCTCTTTCGGCCCCCTGGCGAAGCGGTGCTGCTCCAG 300
 L R S A A T A R L F R P L A K R C C L Q
 301 CCCAGAGATGCCGCAAGATGCCGAGAGCGCTTGAAGTTTCTTCTACCTGGGCAGC 360
 P R D A A K M P E S A W K F L F Y L G S
 361 TGGAGCTACAGTGCCTACCTGCTGTTTGGCACCAGTACCCTTCTTCATGACCCACCA 420
 W S Y S A Y L L F G T D Y P F F H D P P
 421 TCTGTCTTCTACGACTGGACGCGGGCAGTGGCAGTGGCAGGGGACATTGACGCGGCTAC 480
 S V F Y D W T P G M A V P R D I A A A Y
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 L L Q G S F Y G H S I Y A T L Y M D T W
 541 CGCAAGGACTCGGTGGTCTGCTGCTCCACCAGTGGTCACTCTCATCTCATCTGCTTCC 600
 R K D S V V M L L H H V V T L I L I V S
 601 TCCTACGCTTCCGCTACCAATGTGGGCATCCTTGTGCTCTTCTGTCAGATATCAGT 660
 S Y A F R Y H N V G I L V L F L H D I S
 661 GACGTGACGCTTGAAGTTCACCAAGCTCAACATTTACTTCAAGTCCCGCGGGCGCTCTAC 720
 D V Q L E F T K L N I Y F K S R G G S Y
 721 CATCGGCTGCATGCTGGCAGCAGACTTGGGCTGCCTCAGCTTGGGCTTCACTGGTTC 780
 H R L H A L A A D L G C L S F G F S W F
 781 TGGTTCGCGCTTACTGGTTCGCGCTCAAGGTCCTGTATGCCACGCTCACTGCACTGTG 840
 W F R L Y W F P L K V L Y A T S H C S L
 841 CGCACGGTGCCTGACATCCCTTCTACTTCTTCTCAATGCGCTCCTGCTGCTGCTCACC 900
 R T V P D I P F Y F F F N A L L L L L T
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 1141 CTGGGCG 1200
 1201 GGACCCCG 1260
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 1861 AGGCG 1920
 G A G A D P G P V L L R Q L V P A L G P
 1921 CGCCAGTGGCGCGGAGCTGTGGGCGCGGCTGGGCTCGCAACGCTCATGGCGCGCGCA 1980
 P V R A E L L G A A W A R N A S W P R S
 1981 GCTTCCGCTGGCGCTGGCGCTACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2040
 L R L A L A L R P R A P A A C A R L A E
 2041 AGGCTTCTGCTGTGTGTGACCTCGACCGCGCGCTGTGCCACCGCGCTGGCGCGCGCG 2100
 A S L L L V T L D P R L C H P L A R P R
 2101 GCGCGGACCGCAACCGGTGTTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2160
 R D A E P V L G G G P G G A C R A R R L
 2161 TGTACGTGAGCTTCCGCGAGGTGGGCTGGCAGCGCTGGGTATCGCGCGCGCGCGCGCTTC 2220
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 2221 TGGCCAACCTACTGCCAGGTCAGTGGCGCTGCGCGCTGCGCGCTGTGGGGTCCGGGGGG 2280
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 2341 CCGACCTGCGCTGCTGCTGCGCGCGCGCTGTGCCCATCTCCGCTCTTCTTTGACA 2400
 D L P C C V P A R L S P I S V L F F D N
 2401 ACAGCGACAACGTGGTGTGCGGAGTATGAGGACATGGTGGTGGACGAGTGGCGCTGCC 2460
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Fig. 11B

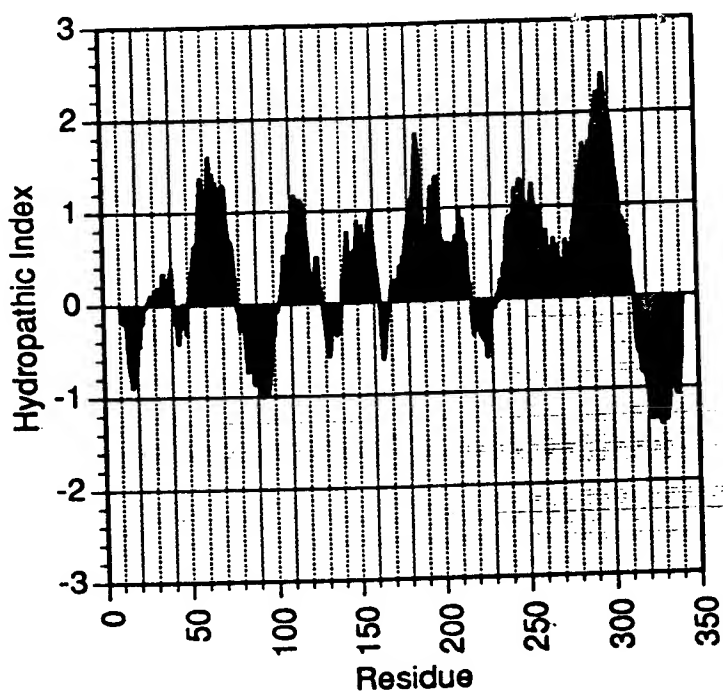


Fig 12

	1		57
mGDF-1	MLPVCHRFCDH--LLLL-LLLPSTTLAPAPASMGFAAALLQVLGLPEAFRSVPTHRVPVP		
hGDF-1	MPPPQQGPCGHLLLLLLALLLESFLTRAPVFPGFPAALLQALGLRDEPQGAPRLRFVFP		
	1		60
	58		110
mGDF-1	VMWRLFRRRDPQEARVG-R---P---LRPCHVEELGVAGNIVRHIPDSGLSSRPAQPART		
hGDF-1	VMWRLFRRRDPQETRSGSRRTSPGVTLOPCHVEELGVAGNIVRHIPDRGAPTRASEPVSA		
	61		120
	111		166
mGDF-1	SGLCPewTVVFDLSNVEPTerPTRARLELRLEAF ^S EDT--GGWELSVALWAD-AE-HPGP		
hGDF-1	AGHCPEWTVVFDLSAVEPAERP ^S RRARLELRFAAAAAAPEGGWELSVAQAGQGAGADPGP		
	121		180
	167		225
mGDF-1	ELLRVPAPP-GVLLRADLLGTAVAANASVPCTVRLALSLHPGATAACGR ^S LAEASLLLVTL		
hGDF-1	VLLRQLVPALGPPVRAELLGAAWARNASW ^S PSRLALALRPAPAAACARLAEASLLLVTL		
	181		240
	226		284
mGDF-1	DPRLC-PLPRL ^S RHTEPRVEVG ^S PGVT ^S RT ^S RLHVSFREVGVHRWVIA ^S PRGFLANF ^S OGT ^S		
hGDF-1	DPRLC ^S HP ^S LAR ^S PR ^S DAEPVLGGGPGGA ^S RRRLYVSFREVGVHRWVIA ^S PRGFLANY ^S OGG ^S		
	241		300
	285		344
mGDF-1	ALPETLRGPGGPPALNHA ^S VLRA ^S LMHAAAPT ^S PGAGSP ^S VPERLSPISVLFFD ^S NSDNV ^S VLR		
hGDF-1	ALPVALSGSGGPPALNHA ^S VLRA ^S LMHAAAPGA-ADLP ^S VPARLSPISVLFFD ^S NSDNV ^S VLR		
	301		359
	345	357	
mGDF-1	HYEDMVVDE ^S GR ^S		
hGDF-1	QYEDMVVDE ^S GR ^S		
	360	372	

Fig 13a

	1	60
mUOG-1	MAAAAATERLEAPEPMPSYAQMLORSWASALAAQCGDCGWGLARRGLAEHAHLAAPEL	
hUOG-1	MAAAGPAAGPTGPEPMPSYAQLVQRGWSALAAARGCTDCGWGLARRGLAEHAHLAPPEL	
	1	60
	61	120
mUOG-1	LLAVLCALGWTALRWAATTHIFRPLAKRCRLOPRDAARLPESAWKLLFYLACWSYCAILL	
hUOG-1	LLLALGALGWTALRSAATARLFRPLAKRCCLOPRDAAKMPESAWKLFYLGWSYSAYLL	
	61	120
	121	180
mUOG-1	LGTSYPFFHDPPSVFYDWRSGMAVPWDIAVAYLLQGSFYCHSIYATVYMDSWRKDSVVML	
hUOG-1	FGTDYPFFHDPPSVFYDWTGMAVPRDIAAAYLLQGSFYGHSIYATLYMDTWRKDSVVML	
	121	180
	181	240
mUOG-1	VHHVVTLLLIASSYAFRYHNVGILLVFFLHDVSDVQLEFTKLNIFYKARGGAYHRLHGLVA	
hUOG-1	LHHVVTLLILIVSSYAFRYHNVGILVFLHDISDVQLEFTKLNIFYKSRGGSYHRLHALAA	
	181	240
	241	300
mUOG-1	NLGCLSFCEFCWFWFRLYWFLKVLVYATCHCSLQSVDPIDPYFFFNILLLLLMVMNIYWFL	
hUOG-1	DLGCLSEGFSEWFWFRLYWFLKVLVYATSHCSLRTVPDIPFYFFFNALLLLLTLMNLYWFL	
	241	300
	301	350
mUOG-1	YIVAFAAKVLGTGOMRELEDLREYDTLEAQTAKPCKAEKPLRNGLVKDKLF	
hUOG-1	YIVAFAAKVLGTGVHELKDLREYDTAEAQSLKPSKAEKPLRNGLVKDKRF	
	301	350

Fig 13b

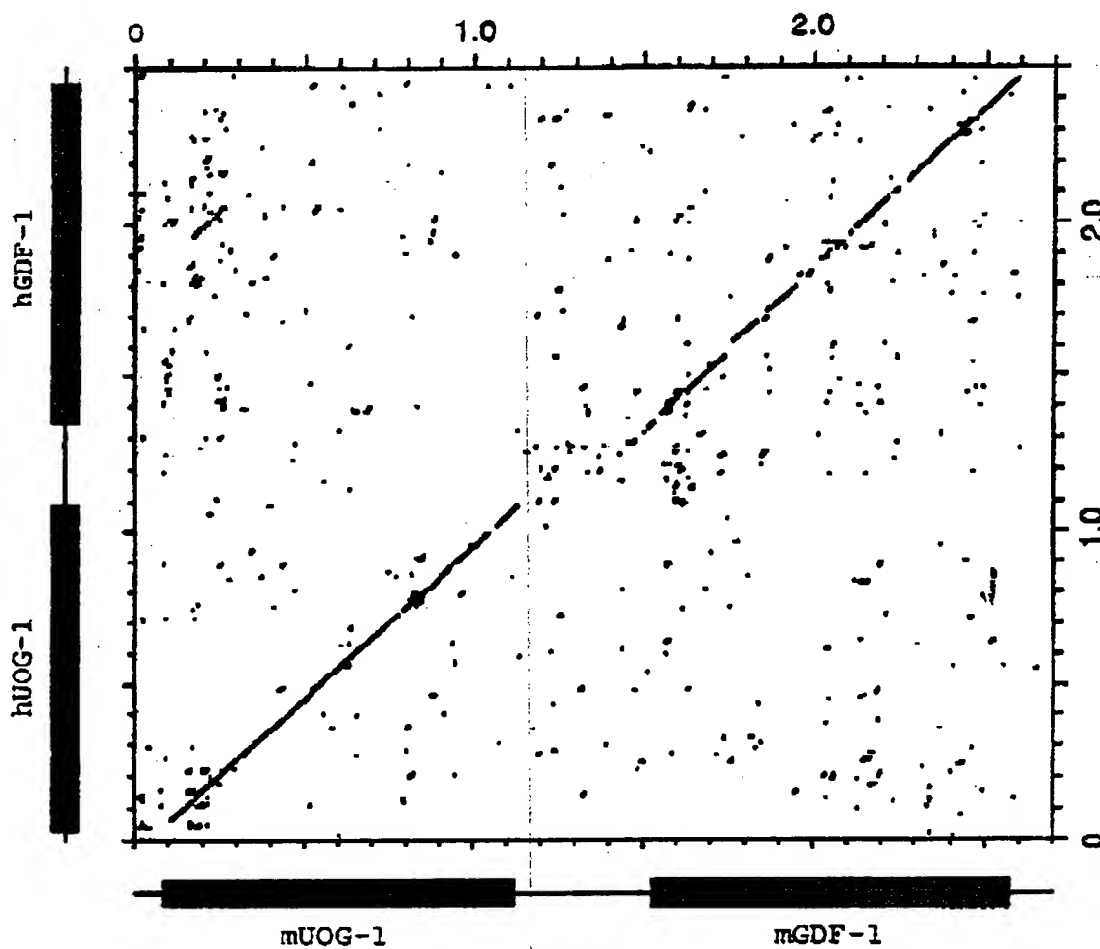


Fig 13c

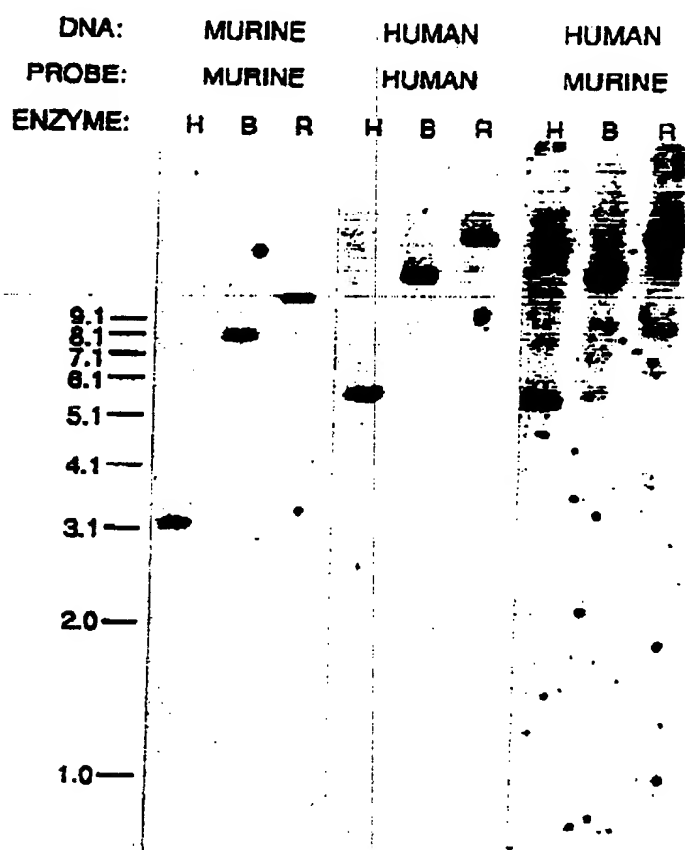


Fig 14